

Concerning the Socialistic Intensification of
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*USDA

Sci - Agri
Nov 64
List 75

(DC-3901/53)

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Book "Semasiologiya", by P. S. Aleksandrov,
7 pp.

RUSSIAN, per, Vest Moskov U, Filologiya Zhur,
No 4, Jul/Aug 1960, pp 78-83.

JPRS 6938

Sci - Misc

Mar 61

144,697

Investigation of Certain Photometric Characteristics
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"Proton" Satellite, by O. M. Kovrizhnykh.

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Astronomiya, Vol 22, Sept-Oct 1967, pp 72-79.

*NASA TT F-12,911

Sci/Phys
May 70

The Velocity of Small Perturbations and the
Existence of Weak Shock Waves in a Radiating
Gas Taking Into Account Radiation Pressure
by V. A. Prokof'yev, 27 pp.

RUSSIAN, per, Vestnik Moscow Universitet,
Seriya Fiziki i Khimii, Series 1, No 1,
1960, pp 43-59. P100055467
FTD MT 65-234

Sci-Phys

320.476

Influence of Zonal Harmonics on the Motion
of the Fifth Satellite of Jupiter.

By V. N. Kiriushenkov

RUSSIAN, per, Vestnik, Moscow Univ., Fiz.

Astron. Ser., No. 2, 1969, pp. 80-87

CIA X-7137

Dec 69

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Mutual Perturbations of Mars Satellites.**By S. N. Vashkov'iak****RUSSIAN, per, VESTNIK, Moscow Univ. Fiz.****Astron. No. 1, 1969, pp. 87-90****CIA X-7138****Dec 69****397,492**

Influence of Galilean Satellites on the
Motion of the Fifth Satellite of Jupiter.

V. N. Kiriushenkov

RUSSIAN, per, Vestnik, Moscow Univ. Fiz.
Astron. Ser., No. 4, 1969

CIA X-7140

Dec 69

397,494

Instrument for Investigation of Cosmic
Radiation at 200-400 km Altitudes.

By V. L. Maduev, B. M. Makhmudov

RUSSIAN, per, Vestnik, Moscow Univ., Fizika,
Astronomiia, No. 4, 1969, pp. 79-82

CIA X-7110

Nov 69

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On a Nonlinear Theory of a Semiconductor
Laser with Optical Excitation.

By E. V. Pogorelova

RUSSIAN, per, Vestnik, Moscow Univ, Fizika,
Astronomiia, No. 4, 1969, pp. 100-102

CIA X-7109

Nov 69

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Transition Radiation, by E. P. Klepikov, 8 pp.

RUSSIAN, per, Vest Moskov Univ, Ser Fiz-Matemat
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AEC-Tr-5642

Sci - Phys
Jun 63

231,886

(PDD 21550)

Problems of the Qualitative Theory of Differential Equations, by V. V. Kozlov, 32 pp.

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RUSSIAN, no per, Vest Moskov U. Ser Fiziko-matemat 1
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pp 19-39.

CIA/PDD/U-6096

USSR

16,095
Scientific - Mathematics, survey of nonlinear problems

(PDD 20389)

The Effect of Viscosity and Heat Conduction on the
Flow of Gas Behind a Strongly Curved Shock Wave,
by L. I. Sedov, M. P. Mikhaylova, G. G. Chernyy,
11 pp.

Full translation.

RUSSIAN, no per, Vest Moskov U. Seriya Fiziko-Matemat
i Yestest' Nauk, No 2, Moscow, 8 Mar 1953, pp 95-100.

DEC 19 1954
CIA/PDD/U-5944
15,454
RT-1368

USSR

Sci - Physics, gas dynamics

V (PDD 25157)

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RUSSIAN, no per, Vest Mosk U Ser Fiz-Matemat i
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CIA/FDD/U-7895

USSR

Sci - Mathematics, Physics, Geophysics, Chemistry,
Geographic

32, 346

Feb 1956 CTS

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(FDD 26870)

Typical High Vacuum Combined Apparatus for the New
Building of Moscow University, by P. K. Oshchepkov,
E. M. Reykhrudel', T. N. Stasyuk, 22 pp.

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i Yestest Nauk, Vol VI, No 9, Moscow, 1953, pp 65-77.

CIA/FDD U-8675

USSR
Sci - Engineering

34,873

Aug 56 CTS/DEX

Filippov, L. P.
 PROBLEMS CONCERNING THE MEASUREMENT OF
 HEAT CONDUCTIVITIES OF LIQUIDS AND GASES.
 DEVELOPMENT OF A COMPARATIVE METHOD
 USING A FLAT LAYER (PARALLEL PLATE). [1960]
 (7)p. 7 refs.
 Order from LC or NLA ml\$1.80, ph\$1.80 61-10145

Trans. of Moscow U. Vestnik Seriya Fiziko-
 matematicheskikh i Yestestvennykh Nauk (USSR)
 1953, v. 5, no. 9, p. 109-114.

(Physics--Thermodynamics, TT, v. 5, no. 4)

61-10145

1. Liquids--Heat transfer
2. Gases--Heat transfer
3. Heat conductivity
4. Measurement
5. Filippov, L. P.
6. Heat development

143,217

Office of Technical Services

(FDD 26871)

Meeting of the Scientific Council Dedicated to Radio
Day, by V. Dotsenko, 5 pp.

RUSSIAN, 8-times-yr per, Vest Mosk U. Ser Fiz Matemat
i Yestest Nauk, Vol VI, No 9, Moscow, 1953, pp 161, 162

CIA/FDD U-8676

38,863

USSR

Sci - Electronics

Aug 56 CTS/DEX

(FID 26872)

50 Years of Scientific and Pedagogical Activity of
Professor A. B. Mlodzyevskiy, by V. Dotenko,
6 pp.

RUSSIAN, 8-times-yr per, Vest Mosk U: Ser Fiz-
Matemat i Yestest Nauk, vol VI, No 9, Moscow, 1953,
pp 162-164.

CIA/FID U-8677

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Biographic

Aug 56 CTS/DEX

(FDD 26873).

At the Geographic Faculty Discussion of the Scientific Problems of the Office for Division Into Economic Districts, by N. O. Kibal'chik, M. Stepanov, 16 pp.

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CIA/FDD U-8678

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Aug 56 CTS/DEX

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Geographic
Econ

(FDD 26874)

Defense of Dissertations, by O. Kibal'chik, 4 pp.

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1953, pp 169-171.

CIA/FDD U-8679

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Sci - Physics

Aug 56 CTS/DEX

38,946

(FDD 26875)

Award of the M. V. Lomonosov Prize for 1953, by S.
Daronyan, L. Krupchanov, 3 pp.

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i Yestest Nauk, Vol VI, No 9, Moscow, 1953, p 171.

CIA/FDD U-8680

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Sci - Miscellaneous, scientific prizes.

Aug 56 CPS/DEX

38,958

(FDD 25158)

Chemical Faculty in Lenin's Hills (Section of Moscow
by A. V. Novoselova, 9 pp.

RUSSIAN, no per, Vest Mosk U Ser Fiz-Matemat i Yeste
Nauk, No 10, Moscow, Oct 1974, pp 13-18.

3

CIA/FDD/U-7805

USSR

Sci - Chemistry, general
Biographic

31,563

Jan 56 CTS

(FDD 25159)

Combine Academic and Scientific Work Skillfully, by
G. P. Gorshkov, 9 pp.

RUSSIAN, no per, Vest.Moskov.U.Ser.Fiz.Mat. i Yestest
Nauk, No 12, Moscow, Dec 1953, pp 3-8.

CIA/FDD/U-7441

USSR

Sci - Geophysics, general

29,047

(FDD 25160)

Prepare Highly Qualified Cadres of Physicists,
by A. A. Sokolov, 13 pp.

RUSSIAN, no per, Vest Moskov U Ser Fiz Matemat i
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CIA/FDD/U-7442

USSR
Sci - Physics, general
CTS 73 Oct 55

29,068

(FDD 25161)

Some Results of the Work of the Zarayskiy Rayon Complex Expedition, by Yu. Tsessel'chuk, 10 pp.

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CIA/FDD/U-7443

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Sci - Geophysics

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(FDD 25162)

The Hydrogeological Expedition, by A. Yakusheva, 6 pp.

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CIA/FDD/U-7444

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Sci - Geophysics, geology

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(FDD 25163)

The Stalingrad Complex Expedition, by
A. Vadyunina, 5 pp.

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Matemat i T Yestest Nauk, No 12, Moscow,
Dec 1953, pp 141, 142.

CIA/FDD/U-7445

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Sci - Biology
CTS 73 Oct 55

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Effect on the Heat Transfer Process of Radiation
and Absorption by the Medium, by L. D. Filippov,
9 pp.

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Morris D. Friedman F-107
\$5.00

US6R

Scientific - Physics

CTB 65/Feb 55

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Lapitskii, A. V. and Simanov, Yu. P.
LITHIUM SALTS OF ORTHONIOBIC AND ORTHO-
TANTALIC ACIDS. [1962] 6p. 6 refs.
Order from OTS or SLA \$1.10 62-18540

Trans. of Moscow U. Vestnik [Seriya Fiziko-Mate-
maticheskikh i Estestvennykh Nauk (USSR) 1954 [v. 9]
no. 2 [p. 69-72].

DESCRIPTORS: *Lithium compounds, Salts, *Niobates,
*Tantalum compounds, Oxides, Acids, Synthesis,
Lattices, Density, X-ray diffraction analysis.

Lithium orthoniobate and orthotantalate were synthesized
by two methods (giving identical results): (1) by the
interaction of lithium carbonate and niobium (tantalum)
pentoxide and (2) by the fusion of niobium (tantalum)
pentoxide with lithium hydroxide. The lattice constants
of both salts were determined. The pycnometric den-
sities of the lithium orthosalts of niobic and tantalic
acids were found to be in agreement with their calculated
x-ray densities. (Author)

62-18540

I. Lapitskii, A. V.
II. Simanov, Yu. P.

(Chemistry--Inorganic, TT,
v. 10, no. 1)
Office of Technical Services

Theory of Solutions, by M. I. Shakhparonov.

RUSSIAN, per, Vestnik Moskov Univ, Vol IX, No 5,
Ser Fiz-Mat i Estestven Nauk, No 3, 1954, pp 55-59.

AMS RJ-1145

Sci - Phys

Apr 60

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Moving Layers in Stationary Glow Discharge, by
A. A. Zaitsev, L. Pedarek, 5 pp.

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Estestven Nauk No 3, 1954, pp 69-72.

ABC tr 2586

Sci - Physics
Nov 56 CTS

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The Investigation of Vibrational Processes in
Glow Discharge for Transient Conditions, by L.
Pekarek, 5 pp.

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ABC to 2387

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Nov 56 QTS

40,455

Some Properties of Tantalum Pentoxide 1., by A. V.
Lapitskiy, Yu. P. Simanov.

RUSSIAN, per, Vest Moskov Univ, Ser Fiz Matemat i Estest
Nauk, Vol IX, No 3, 1954, pp 85-89.

AERE, Harwell Tr-1559

Sci - Phys, Chem
Jul 62

202,224

Several Characteristics of Gaseous-Discharge
Ion Source, by E. M. Reikhrudel, A. V. Chernetski,
7 pp.

RUSSIAN, per, Vestnik Moskov Univ Ser Fiz Mat i
Estestven Nauk, No 5, 1954, pp 47-53.

ACC Tr 2588

Sci - Physics
Nov 56 CTS

40, 456

Miroslavlev, E. N.
NONLINEAR SYSTEMS WITH CORRECTING
STABILITIES. [1962] 10p. 7 refs. [Trans.] 6897.
Order from OTS or SLA \$1.10 62-24771

Trans. of Moscow U. Vestnik. Seriya Fiziko-
Matematicheskikh i Estestvennykh Nauk (USSR) 1954,
v. 9, no. 6, p. 33-40.

DESCRIPTORS: Automatic, *Control systems, *Non-
linear systems, *Corrections, Circuits, Stabilization,
Servomotors, Feedback, Equations of motion
functions.

(Engineering--Electronic, TT, v. 10, no. 3)

62-24771

1. Miroslavlev, E. N.
II. Trans-6897

CIA/FDD/4-6897

OTSUS/ELSS

Office of Technical Services

Some Properties of Tantalum Pentoxide, by Yu. P.
Simanov, A. V. Lapitskiy, et al.

RUSSIAN, per, Vest Moskov Univ, Ser Fiz Matemat i
Estest Nauk, Vol IX, No 9, 1954, pp 109-113. 778777.8

AERE, Harwell Tr-1560

BJC NF 75 274

Sci - Phys, Chem
Jul 62

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Concerning the Composition of Longitudinal Plasma
Oscillations, by A. A. Luchina, G. Ia. Myakishev,
(Myakishev),

RUSSIAN, per, Vestnik Moskov Univ Ser Fiz Mat i
Estestven Nauk, No 12, 1954, pp 57-61.

AEC Tr 2589

Sci - Physics
Nov 56 CTS

40, 457

Reflection of Shock Waves From Corners of Rigid
Walls, by A. Ya. Sagomonian, 10 pp.

RUSSIAN, per, Vestnik Moskov Ser Fiz Mat 1
Estestven Nauk, NO 2, 1977, pp 33-40.

AND 12r 2990

Sci - Physics
Nov 76 CES

40, 458

Filippov, L. P.
THERMAL CONDUCTIVITY OF SOLUTIONS OF
ASSOCIATED LIQUIDS. [1960] (th. 2 refs.
Order from LC or SLA mi\$1.80, ph\$1.50 61-10144

Trans. of Moscow U. Vestnik. Seriya Fiziko-
matematicheskikh [Leningradskiy Vostok] (USSR)
1955, v. 10, no. 8, p. 67-69.

For 9 systems (methyl formate-methyl alcohol;
benzene-acetone; isobutylalcohol-acetone; acetone-
methyl formate; benzene-methylalcohol, isobutylalcohol-
methyl formate; carbon tetrachloride-acetone; chloro-
benzene-methylalcohol; and carbon tetrachloride-methyl-
alcohol) the concentration relation had exactly the same
character as that for solutions of normal organic sub-
stances and satisfied

$$\lambda = \lambda_1 + p_1^2 + p_2^2 + \dots + p_n^2$$

where $p_1, p_2, p_3, \dots$ represent the weight percentages of
the components ($\sum p_i = 1 - p_1$).

(Chemistry-Physical, TT, v. 5, no. 3)

61-10144

L. Polymer solutions. Thermal
properties
L. Philippov, L. P.

142,901

Office of Technical Services

Influence of Minor Nitrogen and Oxygen Impurities
on the Secondary Discharge Current and Determination
of the Nitrogen Content of Argon, by M. Ya.

Vasil'yeva, I. I. Tsygankova, 10 pp

RUSSIAN, per, Vest Moskov Univ, Ser Fiziko-Matemat
i Estestvennykh Nauk, No 8, 1955, pp 81-86.

DSIR LLU RTS 1632

OTS 61-15402 (4.10)

Sci - Chem

Oct 60

130,716

Concerning the Chemical Status of Atoms Resulting
From Nuclear Transformations, by A. N. Nesmeyanov,
Ye. G. Ippolitov.

RUSSIAN, per, Vest Mosk ~~Ukaza~~^{not}, ser Fiz-Mat i
vest Nauk, No 10, 1955, pp 97-90.

~~Summary Translation~~

Will appear in
Foreign Information Reports

Reaction of Hydrazine Derivative IV. New Synthesis of
Benzylhydrazine, by I. I. Grandberg, A. N. Kost, 3 pp

RUSSIAN, per, Moscow U Vestnik, Ser Fiz-Mat i Yestest-
vennykh Nauk, Vol X, No 12, 1955, pp 119, 120.

SLA 59-15900

Sci

Dec 59

Vol 2, No 5

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Quantitative Separation of Beryllium from Various
Elements by the Method of Ion-Exchange Chromato-
graphy, by T. A. Belyavskaya, V. I. Fadeyeva.

RUSSIAN, per, Vestnik Mosk Univ, Ser Fiz Mat
Estestv Nauk, Vol XI, No 6, 1956, pp 73-79.

AWRE-Tr-33

Sci - Phys

Jun 63

231,855

The Place of Geomorphology in the System of Natural
Sciences and Its Relationships With Integrated
Physical Geography, by I. S. Shchukin, 9 pp.

RUSSIAE, per. Vest Moskov U, Ser Geografiya,
No 1, 1960, pp 15-22.

Amer Geograf Soc

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Geographic
Nov 60

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Participation of Moscow University Geographers in
Practical Work of Regional Economic Councils, by
A. S. Shaposhnikov, 5 pp.

RUSSIAN, per, Vost Moskov U, Ser. Geograf,
No 1, 1960, pp 32-42.

Amer Geograf Soc

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Geographic
Board 60

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Agricultural Maps in National Atlases, by
N. S. Vinogradova, 6 pp.

RUSSIAN, per, Vest Moskov U. Ser Geograf,
No 1, 1960, pp 43-48.

Amer Geograf Soc

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Geographic
Nov 60

133, 018

Geomorphic Mapping Abroad, by I.A. I. Spiridonov.
6 pp.

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No 1, 1960, pp 54-62.

Amer Geograf Soc

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Geographic
Nov 60

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Basic Shifts in the Structure and Distribution of
China's Industry, by I. Kh. Ovdienko, 7 pp.

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Geograf, No 2, 1960, pp 28-32.

Soviet Geography
Amer Geograph Soc
Vol II, No 1

FE-China

~~150,233~~

~~150,233~~ Econ

May 61

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(SF-1878)

Nikolay Nikolayevich Zubov, by A. D. Dobrovol'skiy,
8 pp.

RUSSIAN, per, Vest Mosk Univ; Geograf Seriya, No 2,
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JPRS 10333

USSR

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Sci - Misc. 00101

Geological Maps in National Atlases, by N. V.
Krasil'nikova, 8 pp.

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Vol II, No 5
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Geog

May 61

On "Environmentalism" and "Possibilism", by Yu. G.
Sausshkin, 3 pp.

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Soviet Geography
Amer Geograph Soc
Vol II, No 2

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Geog

May 61

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Geochemical Principles of Landscape Classification,
by A. I. Parel'man, 10 pp.

RUSSIAN, per, Vest Moskovskogo Universiteta, Ser
Geograf, No 4, 1960, pp 3-12.

Soviet Geography
Amer Geograph Soc
Vol II, No 3

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Population Maps in National Atlases, by O. A. Yevteyev,
7 pp.

RUSSIAN, per, Vest Moskovskogo Universiteta, Ser
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Soviet Geography
Vol II, No 5
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Geog

May 61

Some Problems of Electric Power Development in the
Kuybyshev Economic Administrative Region, by P. N.
Stepanov, Yu. N. Savenko, 7 pp.

RUSSIAN, per, Vest Moskovskogo Universiteta, Ser
Geograf, No 5, 1960, pp 14-19.

Soviet Geography
Amer Geograph Soc
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Mar 61

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The Construction of Economic Models of Regional and
Local Territorial-Production Complexes, by Yu. G.
Saushkin, 7 pp.

RUSSIAN, per, Vest Moskovskogo Universiteta, Ser
Geograf, No 6, 1960, pp 3-9.

Soviet Geography
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Vol II, No 4

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~~USSR~~ Econ

May 61

Climate Maps in National Atlases, by I. N. Guseva,
7 Pl.

RUSSIAN, per, Vest Moskovskogo Universiteta, Ser
Geograf, No 6, 1960, pp 26-32.

Soviet Geography
Vol II, No 5
Amer Geographical Soc

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Geog

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A Detailed Geographical Field Study of Solonchaks
Complexes in the Dry Steppe Zone, by S. V. Golovenko,
N. A. Yegorova, N. P. Osadchaya, 13 pp.

RUSSIAN, per, Vest Moskovskogo Universiteta,
Ser Geograf, No 6, 1960, pp 33-39.

Soviet Geography
Vol II, No 5
Amer Geographical Soc

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May 61

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The Fuel Balance of Kuybyshev Oblast, by Yu. N.
Savenko, 6 pp.

RUSSIAN, per. Vest Moskov U, Ser Geograf, No 6,
1960, pp 49-54.

Amer Geographical Soc
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Jun 61

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The Economic-Geographic Situation of Orenburg, by
V. S. Varlanov, 7 pp.

RUSSIAN, per, Vest Moskov U., Ser Geograf, No 6,
1960, pp 55-60.

Amer Geographical Soc
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Vol II, No 6

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Geog

Jun 61

Recent Tendencies in the Development of Geography
at Moscow University, by A. M. Ryabchikov, 4 pp.

RUSSIAN, per, Vest. Moskovskogo Universiteta,
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Vol II, No 5
Amer Geographical Soc

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Soc - Geography

May 61

Economic Geography at the 1960 International
Geographical Congress, by Yu. G. Saushkin, 8 pp.

RUSSIAN, per, Vest Mosk Univ, Ser Geografiya, No 1,
1961, pp 13-20.

Amer Geographical Soc
Soviet Geography
Vol II, No 7

USSR

169,383

Geog

Sep 61

Velocity of Deformation of a Hollow Cylinder
Subjected to Internal Pressure, by A. P.
Bronskiy, 4 pp.

RUSSIAN, per, Vestnik Moscow Universitet,
Ser Matematiki, Mekhaniki, Astronomii, Fiziki,
Khimii, Vol XI, No 1, 1956, pp 13-16. 9202263

AEC UCRL-Tr 875(L)

Sci - Phys

Mar 63

On Periodic Solutions of Differential Equations
With a Small Parameter, by Yu. A. Ryabov, 12 pp.

RUSSIAN, per, Vestnik Moskov Univ Ser Matematiki,
Mekhaniki, Astronomii, Fiziki, Khimii, Vol XI,
No 2, 1956, pp 3-12.

Amer Math Soc

Sci - Math

Aug 63

341,557

Goryaga, G. I. and Shvidkovskiy, Ye. G.
HYSTERESIS OF VISCOSITY OF MOLTEN METALS
[Gisterezis Vyazkosti Rasplavennykh Metallov].
[1960] 9p. (3 figs. omitted) 12 refs.
Order from LC or SLA mi\$1.80, ph\$1.80 61-10286

Trans. of Moscow U. Vest[nik]. [Seriya Matematiki,
Mekhaniki, Astronomii, Fiziki, Khimii] (USSR) 1956
[v. 11] no. 2, p. 71-76.

The viscosity of 8 tin-beryllium alloys and of pure tin was examined with a rotation-type viscosimeter. The viscosity of molten metals containing insoluble admixtures showed hysteresis. Molten metals that were purified of such admixtures by filtration in vacuum did not exhibit any viscosity hysteresis. The insoluble admixtures retard the process of recoordination of the atoms (and, consequently, the change of viscosity) during which the atoms pass from the low-temperature packing to the high-temperature packing.

(Metallurgy. TT, v. 5, no. 4)

61-10286

- I. Metals--Viscosity
- I. Goryaga, G. I.
- II. Shvidkovskiy, Ye. G.

143,183

Office of Technical Services

Alimarin, I. P. and Gibalo, I. M.
EXTRACTION OF NIOBIUM, TANTALUM AND
TUNGSTEN 8-HYDROXYQUINOLINATES. [1960] 4p,
4 refs.

Order from LC or SLA m\$1.80, ph\$1.80 60-16522

Trans. of Moscow U. Vestnik. Ser[lya Matematiki]
Mekh[aniki] Astron[omi] Fiz[iki] Khim[i] (USSR)
1956, v. 11, no. 2, p. 185-188.

Experiments showed that niobium 8-hydroxyquinolate
can be extracted rapidly and quantitatively by a
number of organic compounds, at pH 6-9, from
solutions containing 2.5% of ammonium tartrate or
citrate; tantalum and tungsten 8-hydroxyquinolates
are not extracted by organic solvents under these
conditions. Methods for separating niobium from
tantalum by extraction of the 8-hydroxyquinolate
with isomyl alcohol, and from tungsten by
extraction of the 8-hydroxyquinolate with
chloroform were developed.
(Chemistry--Analytical, TT, v. 5, no. 7)

60-16522

1. Niobium--Solvent extraction
2. Tantalum--Solvent extraction
3. Tungsten--Solvent extraction
4. Quinoloinol--Solvent properties

- I. Alimarin, I. P.
- II. Gibalo, I. M.

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On the Dynamic Accuracy of a Servo-System
Which Contains a Typical Nonlinear Member,
by S. Ia. Naevskii, 11 pp.

RUSSIAN, per, Vestnik Mos. Gos. Univ., Seria
Matem., Mekh., Fiz, 1, Khim, No 1; 1957
April 1957, pp 84-94.

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Pressure Penetration Into the Body of a
Compressible Nonhomogeneous Fluid, by A. G.
Bagdoyev, 11 pp.

RUSSIAN, per, Vest Moskov U, Ser Matemat, Mekh,
Astron, Fiz, Khim, No 2, 1957, pp 45-50.

JPRS 7144

Sci - Phys

134,418

Dec 60

(DC-1039)

Experimental Investigation of the Fine Structure of
the Ionosphere, by V. D. Gusev, M. Ye. Arkhangelskiy,
11 pp.

RUSSIAN, bimo per, Vest Moskov Univer, Ser Matemat,
Astron, Fiz, Khim, No 2, Moscow, Mar/Apr 1957, pp
75-85.

US JPRS/DC-L-606

Sci - Geophysics, ionosphere studies

69, 536

(NY-4763)

An Investigation of the Penetration of Pressure
Below the Surface of a Compressible Fluid, by
A. G. Bagdoyev, 11 13 pp.

RUSSIAN, per, Vest Moskov U. i Ser Maths, Mekh,
Astron, Fiz i Khim, No 3, 1957, pp 23-29.

JPRS 5949

Sci - Phys

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131,535

Obtemperanskaya, S. I., Terent'ev, A. P., and
Buzlanova, M. M.

THE QUANTITATIVE DETERMINATION OF THIO-
ALCOHOLS AND THIOPHENOLS. 10 July 62 [5]p.
8 refs.

Order from OTS or SLA \$1.10

62-18974

Trans. of Moscow U. Vestnik. Ser[iya] Mat[ematiki]
Mekh[aniki] Astron[omi] Fiz[iki] Khim[i] (USSR) 1957,
v. 12, no. 3, p. 145-147.

DESCRIPTORS: *Quantative analysis, *Thio radicals,
*Alcohols, *Phenols, Dioxides, Ethylenes, Hetero-
cyclic compounds, Acrylonitriles.

A new method for the analysis of thioalcohols and
thiophenols, based on the cyanoethylation reaction is
presented. Which is as accurate as the iodometric
method. It was found that if a sample of a compound
containing a mercapto group is treated with excess
(Chemistry--Analytical, TT, v. 9, no. 5) (over)

62-18974

I. Obtemperanskaya, S. I.
II. Terent'ev, A. P.
III. Buzlanova, M. M.

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Rumyantsev, V. V.
ON STABILITY OF MOTION RELATIVE TO PART OF
THE VARIABLES (Ob Ustoichivosti Dvizheniya po Otno-
sheniyu k Chasti Peremennyykh) tr. by William G. Vogt.
26 Oct 61, 11p. 5 refs. Control Theory Group Tech-
nical rept. no. 8.
Order from Dept. of Electrical Engineering Dept., U.
of Pittsburgh, Pittsburgh 13, Pa.

Trans. of Moscow U. Vestnik [Seriya Matematiki]
Mekhaniki [Astronomii, Fiziki, Khimii] (USSR) 1957
[v. 12] no. 4, p. 9-16.

DESCRIPTORS: *Equations of motion, Differential equa-
tions, Stability, Perturbation theory, *Mechanics,
Control.

(Mathematics, TT, v. 9, no. 7)

62-34406

- I. Title: Liapunov method
- I. Rumyantsev, V. V.
- II. UP CTG/TR-8
- III. Pittsburgh U. School of Engineering, Pa.

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Gusev, V. D., Vinogradova, M. B. and others.
INVESTIGATION OF THE IRREGULAR STRUCTURE
OF THE IONOSPHERE (Issledovanie Neodnorodnoi
Struktury Ionosfery) tr. by Roy Flagg. Oct 60 [12]p.
21 refs. AmMetSoc-T-R-332+.
Order from OTS or SLA \$1. 60

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Trans. of Moscow U. Vestnik [Seriya Matematiki,
Mekhaniki, Astronomii, Fiziki, Khimii] (USSR) 1957
[v. 12] no. 4, p. 129-136.
Another translation is available from OTS \$0.50 as
part of 60-21437 [1960] 18p.

DESCRIPTORS: *Ionosphere, Electrons, Density,
Radio waves. Scattering.

Results are surveyed of research since 1947, with
special emphasis on the work of Gusev and his
associates.

(Earth Sciences--Atmosphere, TT, v. 6, no. 5)

61-23710

- I. Gusev, V. D.
- II. Vinogradova, M. B.
- III. AmMetSoc-T-R-332
- IV. American Meteorological
Society, Boston, Mass.
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Noctilucent Clouds, by A. Kh. Khrigyan.

RUSSIAN, bk, Vest Moskov. Univ. Ser Matemat, Mekh i
Astron, No 6, 1957, pp 51-55.

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Sci-Geophys
Feb 63

Mikryukov, V. E.
THERMISCHE UND ELEKTRISCHE EIGENSCHAFTEN
VON Cu, Ag, Au, Al SOWIE DER LEGIERUNGEN DES
SYSTEMS Cu - Be. (Thermal and Electrical Properties
of Cu, Ag, Au, Al as well as Alloys of the System Cu-
Be). (text in German).
Order from TIB \$2.60

Trans. of Mos[cow] U. [Vestnik] (USSR) 1957 [v. 12]
[Seriya Matematiki, Mekhaniki, Astronomii,
Fiziki, Khimii] no. 6, p. 57-67.

DESCRIPTORS: *Electrical properties, *Copper,
*Metals, Alloys, Silver, Gold, Aluminum, Beryllium,
Thermodynamic properties.

(Metallurgy, TT, v. 9, no. 6)

62-27193

I. Mikryukov, V. E.
II. Technische Informations-
bibliothek Hannover

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Investigation of Magneto-optic Resonance in Ferromagnetics, by G. S. Krinchik, 21 pp.

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SLA 59-12457

Sci - Phys
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Contributions to the Theory of Surface Waves in
Mg Magneto Hydrodynamics, by A. D. Kislovskiy,
10 pp.

RUSSIAN, for, Vent. Monkev. D. Ser. Mat. Mekh.
Astron. Fiz. Khim. No 6, 1957, pp 99-106.

NTIC F-20-9754/III

Sci - Phys

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Plastic Flow During Simultaneous Continuous Stretch-
ing and Torsion Where the Torsional Moments are
Klein Light, by B. N. Malyshev, 19 pp.

RUSSIAN, per, Vest Moskovskogo Universiteta: Ser
Matemat, Mekhan, Astronomi, Fiz, i Khim, Nr 1,
1958, pp 55-68. 9070039

FD-27-62-605

Sci - Phys

516, 906

Nov 62

On the Influence of Unilateral Elastic Deformations
on the Curie Point of Ferromagnetics, by K. P. Belov,
A. M. Kadomtseva, 8 pp.
RUSSIAN, per, Vest Moskov Univ Seriya Matemat,
Mekh, Astron, Fiz i Khim, Vol II, 1958, pp 133-138x6.
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AEC-SC-T-64-1648

Sci-Math
Jan 65

270,625

Yarov-Yarovoi, M. S.
ON THE COMPUTATION OF HIGHER PARTIAL
DERIVATIVES OF A COMPOSITE FUNCTION
{REPT. 1}. [1962] 15p. 2 refs.
Order from OTS or SLA \$1.60 63-10377

Trans. of Moscow U. Vestnik [Seriya Matematiki
Mekhanika, Astronomii, Fiziki, Khimii] (USSR) 1958
[v. 13] no. 1. p. 87-95.

DESCRIPTORS: *Partial differential equations,
*Functions, *Operators (Mathematics), Integration,
Polynomials, Series.

(Mathematics, TT, v. 9, no. 12)

63-10377

1. Title: Composite
function.
I. Yarov-Yarovoi, M. S.

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Goryaga, G. I. and Belozerova, Ye. P.
ELECTRICAL CONDUCTIVITY OF LIQUID GALLIUM
AND INDIUM [1961].
Order from FRI

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Trans. of Moscow U. Vestnik Seriya Matematiki.
Mekhaniki Astronomii Fiziki Khimii (USSR)
1958, v. 13, no. 1, p. 133-136.

DESCRIPTORS: *Gallium, *Indium, *Liquid metals,
*Electrical conductance.

(Chemistry--Physical, TT, v. 6, no. 1)

61-22414

I. Goryaga, G. I.
II. Belozerova, Ye. P.
III. FRI Trans-136
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(Gt. Brit.)

NLL M. 2599

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TARASEVICH N. I., KHLYSTOVA A. D.

The effect of additions of some substances on the intensity of
spectral lines of niobium and tantalum

Vestn. Moskovsk. Univ., Ser. Mat., Mekh., Astron., Fiz.
i Khim., 13, No. 1, 215-222 (1958)

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The Solution of Linear Differential Equations
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L. N. Maurin, 9 pp. UNCL

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CIA 9048465

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ON THE COMPUTATION OF HIGHER PARTIAL
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REPT. 2. [1962] 13p. 2 refs.
Order from OTS or SLA \$1.60 63-10378

Trans. of Moscow U. Vestnik [Seriya Matematiki,
Mekhaniki, Astronomii, Fiziki, Khimii] (USSR) 1958
[v. 13] no. 2, p. 67-75.

DESCRIPTORS: *Partial differential equations,
*Functions, Integration, Polynomials, Equations,
Series.

(Mathematics, TT, v. 9, no. 12)

63-10378

1. Title: Composite
functions

1. Yarov-Yarovoi, M. S.

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Absorption of Radio Waves at Non Stationary
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Nerovnya, 25 pp.

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~~Astron, Fiz Khim~~, Vol XIII, No 2, 1958,
pp 93-102.

SLA 60-10695

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On the Locking of a Molecular Generator by a Strong
External Force, by N. K. Maneshtin, R. V. Khokhlov.
RUSSIAN, per, Vest Moskov Univ Ser Matemat, Mekh
Astron Fiz Khim, Vol XIII, No 2, 1958, pp 109-113.

*Navy/APL J323

Sci - phys
Mar 64

Cherkasov, A. N.
A NOTE ON LINEAR DIFFERENTIAL EQUATIONS
OF THE SECOND ORDER. [1962] 9p.
Order from OTS or SLA \$1.10 62-20220

Trans. of Moscow U. Vestnik; [Seriya Matematiki,
Mekhaniki, Astronomii, Fiziki, Khimii] (USSR) 1958
[v. 13] no. 3, p. 13-16.

DESCRIPTORS: *Equations. *Differential equations.
Integration.

(Mathematics, TT, v. 9, no. 11)

62-20220

I. Cherkasov, A. N.

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[Kozhevnikov, N. I.].

ETUDE DE L'IMAGE DES RAIES SPECTRALES EN
FONCTION DES CONDITIONS D'ECLAIRFMENT DE
LA FENTE D'ENTREE ET DU PRISME DU
SPECTROGRAPHE (Issledovanie Izobrazheniya
Spektral'nykh Linii v Zavisimosti ot Uslovii Osveshche-
niya Vkhodnoi Shekeli i Prizmy Spektrografa) [Investi-
gation of the Image of Spectrum Lines as Affected by
Illumination Conditions at the Slit and Prism of a
Spectrograph] tr. by B. Vinogradoff. 19 Apr 62 [32]p.
8 refs. CEA Trans. no. R 1607 (text in French).
Order from OTS or SLA \$3.60 62-33741

Trans. in French of Moscow U. Vestnik, [Seriya
Matematiki, Mekhaniki, Astronomii, Fiziki, Khimii]
(USSR) 1958 [v. 13] no. 3, p. 51-64.

DESCRIPTORS: *Spectrophotometers, *Optical equip-
ment components, Prisms (Optics), Line spectrum.
(Physics--Spectroscopy, TT, v. 9, no. 8)

62-33741

I. Kozhevnikov, N. I.
II. CEA-tr-R1607
III. Commissariat a
l'Energie Atomique
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in a Rarefied Gas, by L. P. Otmakhova, 11 pp.

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FIZESTAN, per, ~~Ser Matemat Makh Akhmed~~, Fiz Khim,
Vol XXXI, No 4, 1958, pp 17-26.

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Profiles of Hydrogen Lines in a Chromospheric
Spectrum, by E. V. Konomovich, 15 pp. UNCL

RUSSIAN, per, Vest Moskov Univ. Ser. Mat. Nauk,
Astron. Fiz. Khim, No 4, 1958, pp 37-44. 9660824

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Sci - Astron

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The Approximate Calculation of an Ephemeris in
Unperturbed Elliptic Motion, by B. M. Shchigolev, *6pp.*

RUSSIAN, per, Vost Moskov U, Ser Matemat, Mekh,
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Sci - Phys

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Kosachevskii, M. P.
THE ESTIMATION OF THE RELATIVE DISTURB-
ANCES OF THE SATELLITES OF MARS [Otsenka
Vzaimnykh Vozmushchenii Sputnikov Marsa]. [1962]
[14]p. 7 refs.

Order from OTS or SLA \$1.60

62-20400

Trans. of Moscow U. Vestnik [Seriya Matematiki,
Mekhaniki, Astronomii, Fiziki, Khimii] (USSR) 1958
[v. 13] no. 4, p. 57-[64].

DESCRIPTORS: *Mars, *Satellites, Solar systems,
*Solar disturbances, Density, Numerical analysis,
Planets, *Celestial mechanics.

The present paper contains an investigation on the
motion theory of Mars satellites. Under the assump-
tion that Mars satellites are homogeneous spheres
with the diameters 15 and 8 km and with the density
(Astronomy--Astrophysics, TT, v. 9, no. 11) (over)

62-20400

I. Kosachevskii, M. P.

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Osipov, A. I.
TOWARDS A THEORY OF SHOCK EXCITATION OF
VIBRATION LEVELS OF DIATOMIC MOLECULES
(K Teorii Udarnogo Vosbushdeniya Kolebatelnykh
Urovnei Dvukhatomnykh Molekul). [1961] (15)p.
10 refs.

Order from OTS or SLA \$1.60

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Trans. of Moscow U. Vestnik Seriya Matematiki,
Mekhaniki, Astronomii, Fiziki, Khimii (USSR) 1958
[v. 13] no. 4, p. 97-108.

DESCRIPTORS: *Molecules, Vibration, Excitation,
Shock waves, Quantum statistics, Probability,
*Molecular spectroscopy, Theory.

(Physics--Molecular, TT, v. 9, no. 1)

61-28227

I. Osipov, A. I.
II. Research International As-
sociates, Washington, D. C.

Office of Technical Services